BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: Estimate for Improvements to General / Public Toilet and Septage Maintenance in Ward No. 11 (Kuvempunagara).

Job Code: 011-20-000110

P Code: P-3294 14th Finance Works

Estimated Cost: Rs. 5.00 Lakh(s)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to General / Public Toilet and Septage Maintenance in Ward No. 11 (Kuvempunagara).

011-20-000110	P-3294	Estimate Cost Rs.	500000.00

Centre Line = 5.00+5.00+2.40+2.40+2.40+1.20+0.90 = 19.30 Mtrs

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 **Page No. 6 / Item No. 2.3 of PWD SR 2018-19**	Cum							
	Toilet Block		1	19.30	1.00	1.00	19.30		
	Basic Rate	299.00					**19.30**	322.92	**6232.00**
	Area Weightage @ 8%	23.92							
	Total	**322.92**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.3 of PWD SR 2018-19**	Cum							
	Foundation		1	19.30	1.00	0.15	2.90		
	For Partition Wall		2	1.20	0.75	0.15	0.27		
			2	0.45	0.75	0.15	0.10		
	Flooring								
	Toilet 1		1	2.20	2.20	0.15	0.73		
	Toilet 2		1	2.20	2.20	0.15	0.73		
	Basic Rate	5102.00					**4.72**	5510.16	**25998.00**
	Area Weightage @ 8%	408.16							
	Total	**5510.16**							
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.6, PWD SR 2018-19**	Cum							
			1	19.30	0.60	0.60	6.95		
	Basic Rate	4596.00					**6.95**	4963.68	**34488.00**
	Area Weightage @ 8%	367.68							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**4963.68**							
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.9, PWD SR 2018-19**	Cum							
			1	19.30	0.45	0.45	3.91		
			2	1.20	0.45	0.45	0.49		
			2	0.45	0.45	0.45	0.18		
	Basic Rate	5483.00					**4.58**	5921.64	**27100.00**
	Area Weightage @ 8%	438.64							
	Total	**5921.64**							
5	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, **Page No. 7 / Item No. 2.10 / PWD SR 2018-19**	Cum							
			Qty Vide Item No. 2				**19.30**	217.08	**4190.00**
	Basic Rate	201.00							
	Area Weightage @ 8%	16.08							
	Total	**217.08**							
6	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2018-19**	Cum							
	Plinth		1	19.30	0.15	0.30	0.87		
	Lintel		1	19.30	0.15	0.15	0.43		
	Roof Slab		1	3.10	5.50	0.15	2.56		
	Basic Rate	5444.00					**3.86**	5879.52	**22696.00**
	Area Weightage @ 8%	435.52							
	Total	**5879.52**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							
	Long Wall		2	5.00		2.50	25.00		
	Short Wall		3	2.20		2.50	16.50		
							41.50		
	Deduct for Openings Door		2	0.75		2.00	3.00		
			2	0.90		2.00	3.60		
	Ventilator		2	0.90		0.45	0.81		
			2	0.75		0.45	0.68		
			2	0.45		0.45	0.41		
	Lintel		1	19.30		0.15	2.90		
							11.39		
	Basic Rate	924.00					**30.12**	997.92	**30052.00**
	Area Weightage @ 8%	73.92							
	Total	**997.92**							
8	KSRB 5-15 : Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.28, PWD SR 2018-19**	Sqm							
			2	1.20		2.50	6.00		
			2	0.80		2.50	4.00		
			2	1.20		1.50	3.60		
	Basic Rate	811.00					**13.60**	875.88	**11912.00**
	Area Weightage @ 8%	64.88							
	Total	**875.88**							
9	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 18 / Item No. 4.46.2, PWD SR 2018-19**	Tonne							
	100 Kg / Cum		0.10	3.86			**0.39**	76643.28	**29586.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	70966.00							
	Area Weightage @ 8%	5677.28							
	Total	**76643.28**							
10	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with	Sqm							
			1	3.10	5.50		17.05		
	Basic Rate	1006.00					**17.05**	1086.48	**18524.00**
	Area Weightage @ 8%	80.48							
	Total	**1086.48**							
11	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116, Item No. 15.21 of PWD SR 2018-19**	Sqm							
	Inside Toilet 1		1	2.20	2.20		4.84		
	Toilet 2		1	2.20	2.20		4.84		
	Front		1	3.10	0.20		0.62		
			1	5.20	0.50		2.60		
	Basic Rate	193.00					**12.90**	208.44	**2689.00**
	Area Weightage @ 8%	15.44							
	Total	**208.44**							
12	KSRB15-3.12 :Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116, Item No. 15.20 of PWD SR 2018-19 (Inside Plastering)**	Sqm							
	Inside wall Toilet 1		2	2.20		2.50	11.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			2	2.20		2.50	11.00		
			2	1.10		2.50	5.50		
	Toilet 2		2	2.20		2.50	11.00		
			2	2.20		2.50	11.00		
			2	1.10		2.50	5.50		
							55.00		
	Deductions - For door		2	0.90		2.00	3.60		
	door		2	0.75		2.00	3.00		
							6.60		
	Basic Rate	254.00					**48.40**	274.32	**13277.00**
	Area Weightage @ 8%	20.32							
	Total	**274.32**							
13	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116 / Item No. 15.17, PWD SR 2018-19 (Outside Wall)**	Sqm							
	Out Side		2	2.60		3.25	16.90		
			2	5.00		3.25	32.50		
							49.40		
	Deductions for Ventilor		2	0.90		0.45	0.81		
			2	0.75		0.45	0.68		
			2	0.45		0.45	0.41		
							1.89		
	Basic Rate	245.00					**47.51**	264.60	**12571.00**
	Area Weightage @ 8%	19.60							
	Total	**264.60**							
14	Providing and fixing colour glazed tiles of size 300mmx600mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, etc., complete as per specification. **Page No. 112, Item No. 14.63, PWD SR 2018-19**	Sqm							
	Flooring								
	Toilet 1		1	2.20	2.20		4.84		
	Toilet 2		1	2.20	2.20		4.84		
	Basic Rate	1132.00					**9.68**	1222.56	**11834.00**
	Area Weightage @ 8%	90.56							
	Total	**1222.56**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 60 cms. **Page No.108, Item No. 14.41.2 PWD SR 2018-19**	Sqm							
	Toilet 1		2	2.20	2.10		9.24		
			2	2.20	2.10		9.24		
			1	1.20	2.10		2.52		
			1	1.20	2.10		2.52		
	Toilet 1		2	2.20	2.10		9.24		
			2	2.20	2.10		9.24		
			1	1.20	2.10		2.52		
			1	1.20	2.10		2.52		
	Basic Rate	1632.00					**47.04**	1762.56	**82911.00**
	Area Weightage @ 8%	130.56							
	Total	**1762.56**							
16	KSRB 4-6.1 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.28, PWD SR 2018-19**	Sqm							
			1	3.10	5.50		17.05		
			2	3.10	0.20		1.24		
			2	5.50	0.20		2.20		
	Basic Rate	258.00					**20.49**	278.64	**5709.00**
	Area Weightage @ 8%	20.64							
	Total	**278.64**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	Supplying and fixing pressed steel door frames size 125x65 mm manufactured from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and shutters made out of seasoned Honne wood, styles of 30 mm, thick with lock rail of 160 mm, width, top and side rails of 100 mm. width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years. This shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting with enamel paint 2 coats over primer coat, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift, loading and unloading etc., complete. The Hollow portion of the frame to be filled with cement concrete 1:2:4. **Page No. 42 / Item No. 7.26, PWD SR 2018-19**	Sqm							
			2	0.75		2.10	3.15		
			2	0.90		2.10	3.78		
	Basic Rate	3210.00					**6.93**	3466.80	**24025.00**
	Area Weightage @ 8%	256.80							
	Total	**3466.80**							
18	"Supplying and fixing pressed steel window frame of size 100 x 50mm manufactured from 1.25 mm thick carbon steel or imported steel strips with neat mitred joints at 900degree for window openings and shall be suitable to fix M.S. grills as per design and drawings using 12mm dia rods at 100mm Centre to Centre horizontally and two members of M.S flats of 6mmx40mm size at 150mm apart, welded into a frame of 6mmx40mm size M.S. flats with 16mm size lugs, and 8 Nos. of 100mm size hinges, 4 Nos of Butt Stay pins and 4 Nos. Tower bolts and shutters half panelled and hallf glazed with shutters made out of seasoned honne wood, styles of 30mm thick and 100mm width and rails of 30mm thick and 100mm width and using 4mm thick pin headed glass and panel, filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof vermin proof, heat resistant guaranteed against shrinkage, warp age and such other defects for a period of 3 years.This shall be as per approved drawing, specification and direction including cost of conveyance, manufacturing painting with 2 coats enamel paint over one coat of primer, cost of labour	Sqm							
	Ventilator		2	0.90		0.45	0.81		
			2	0.75		0.45	0.68		
			2	0.45		0.45	0.41		
	Basic Rate	3550.00					**1.89**	3834.00	**7246.00**
	Area Weightage @ 8%	284.00							
	Total	**3834.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	KSRB 15-14.1 : Providing and **applying two coats with oil bound washable distemper** of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. **Page No. 119 / Item No. 15.49.1, PWD SR 2018-19**	Sqm							
			Qty Vide Item No.11+12				**61.30**	118.80	**7282.00**
	Basic Rate	110.00							
	Area Weightage @ 8%	8.80							
	Total	**118.80**							
20	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. **Page No. 120 / Item No. 15.53.2, SR 2018-19.**	Sqm							
			Qty Vide Item No.13				**47.51**	108.12	**5137.00**
	Basic Rate	102.00							
	Area Weightage @ 6%	6.12							
	Total	**108.12**							
21	KSRB 11-1 : Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 79 / Item No. 12.1 / PWD SR 2018-19**	pan							
			3				**3.00**	3716.36	**11149.00**
	Basic Rate	3506.00							
	Area Weightage @ 6%	210.36							
	Total	**3716.36**							
22	KSRB 11-8.2 : Providing and fixing white vitreous china clay, wall corner type, lipped front urinal basin of size 340x410x265mm in the range of two with 7.5 litre P.V.C automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 81, Item No. 12.12, PWD SR 2018-19**	Unit							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			3				3.00	4138.56	12416.00
	Basic Rate	3832.00							
	Area Weightage @ 8%	306.56							
	Total	**4138.56**							
23	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 80 / Item No. 12.7, PWD SR 2018-19**	Unit							
			2				**2.00**	3256.32	**6513.00**
	Basic Rate	3072.00							
	Area Weightage @ 6%	184.32							
	Total	**3256.32**							
24	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **Page No. 82, Item No. 12.23, PWD SR 2018-19**	Unit							
			2				**2.00**	4327.56	**8655.00**
	Basic Rate	4007.00							
	Area Weightage @ 8%	320.56							
	Total	**4327.56**							
25	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 20mm nominal OD pipes **Page No. 98, Item No. 13.85.2, PWD SR 2018-19**	m							
			1	20.00			**20.00**	169.56	**3391.00**
	Basic Rate	157.00							
	Area Weightage @ 8%	12.56							
	Total	**169.56**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
26	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. **(For 1000 litre capacity) Specification No.KBS 13.22 Page No. 96, Item No. 13.78, PWD SR 2018-19**	Nos							
			1				1	7237.68	7238.00
	Basic Rate	6828.00							
	Area Weightage @ 8%	409.68							
	Total	**7237.68**							
27	KSRB13-6.1-3 : Providing and fixing in position brass bib cock of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3. **(P.No.93 / I.No. 13.25 of PWDSR 2018-19)**	Each							
			10				10	254.88	2549.00
	Basic Rate	236.00							
	Area Weightage @ 8%	18.88							
	Total	**254.88**							
28	KSRB 11-18-1.1 : Providing and fixing sand cast iron soil waste and vent pipes 100mm dia with spun yarn soaked in cement slurry and cement mortar 1:2 including cost of materials, labour, testing complete as per specifications. KBS 11-1.10 **Page No. 85, Item No. 12.47, PWD SR 2018-19**	m							
			1	15.00			**15.00**	719.28	**10789.00**
	Basic Rate	666.00							
	Area Weightage @ 8%	53.28							
	Total	**719.28**							
	Sub Total								**446159.00**
	GST @ 12%								**53539.00**
	Add for unforseen and rounding off	L/S							**302.00**
								Total	**500000.00**
	Rupees Five Lakh(s) Only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2018-19.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

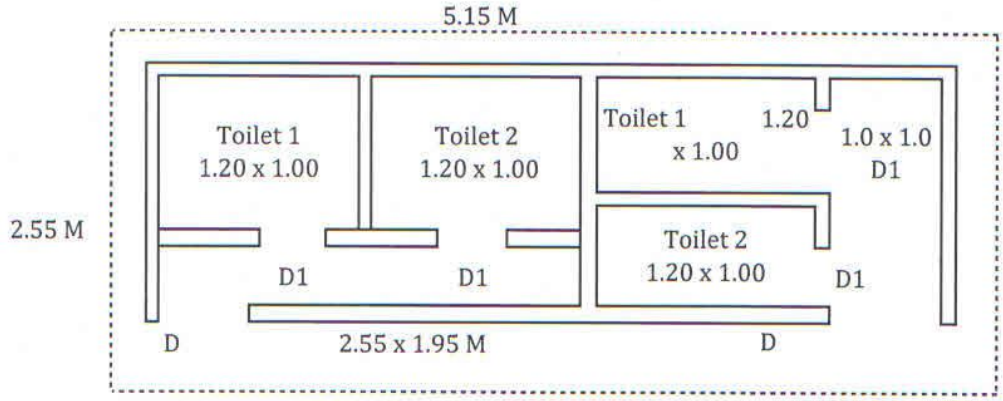
Administrative Approval
Accorded For RS.5.00 lakhs only
Head of A/C..P.3294.....
CER NO :..269..... Dt:27.03.2020

TECHNICAL SANCTION
Accorded For Rs. 5.00 lakhs only
Head of A/c. P.3294
Ref. No. 980 Date 30/3/2020
30/03
30/3
EE(BTP)

TA

CE (YNK),

Name of work: Improvements to General / Public Toilet and Septage Maintenance in Ward No. 11 (Kuvempunagara).

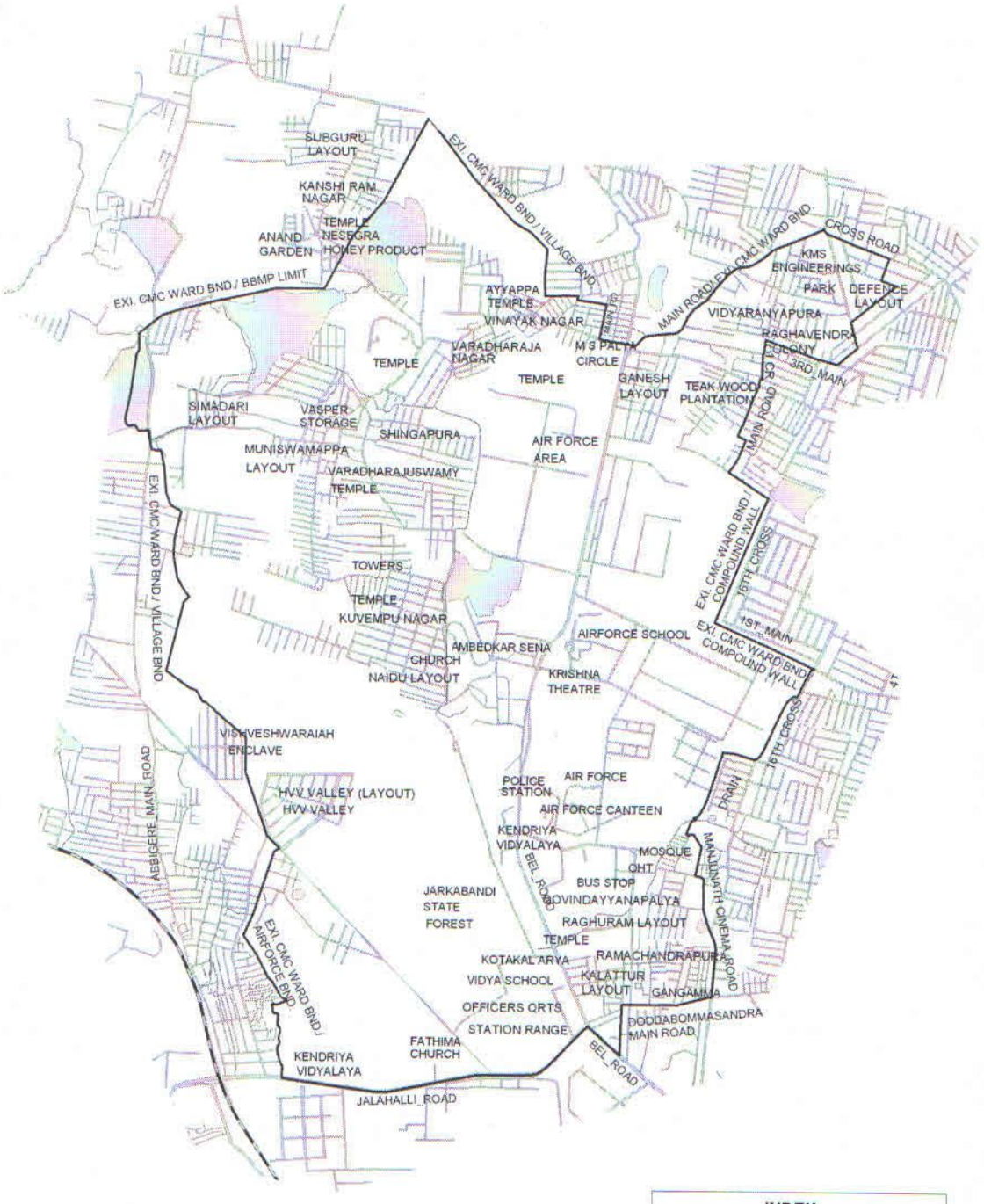


Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

152 - BYATARAYANAPURA AC
WARD NAME : 11 - KUVEMPU NAGAR



INDEX

- PROPOSED WARD BOUNDARY
- RIVER/ DRAIN
- RAILWAY LINE
- ROAD

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97